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FIG. 1

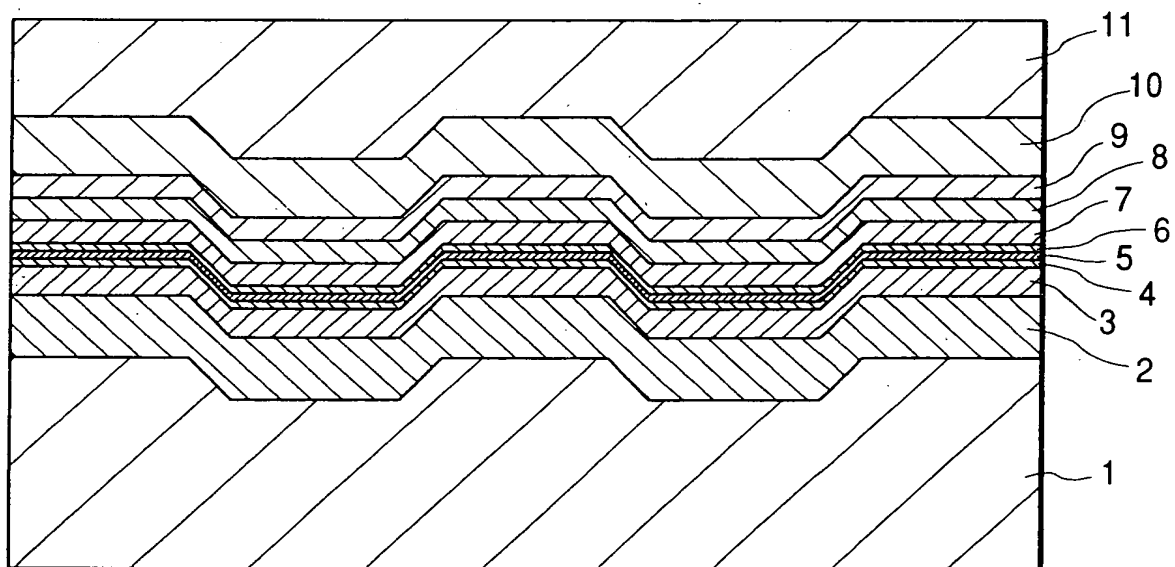
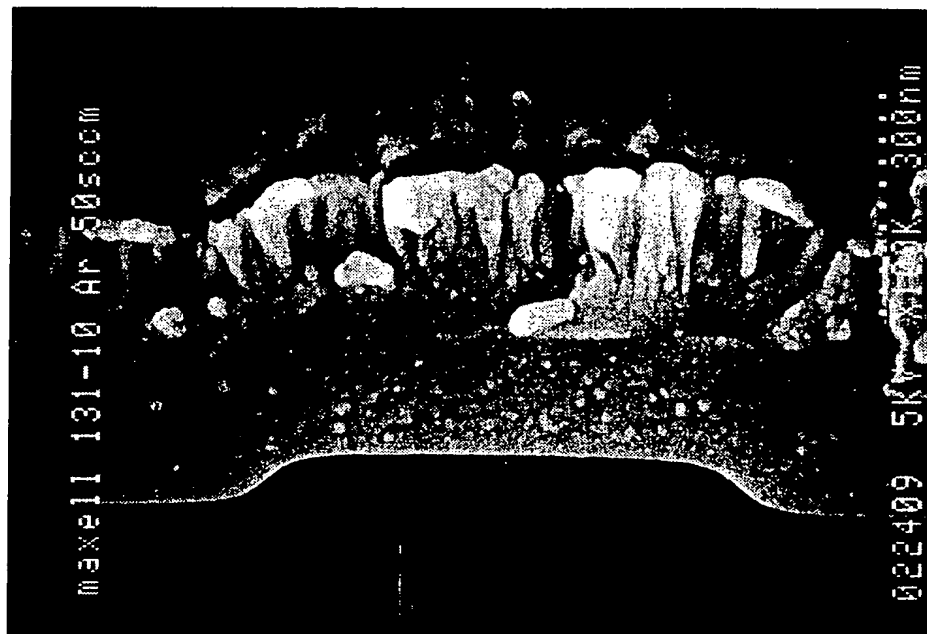
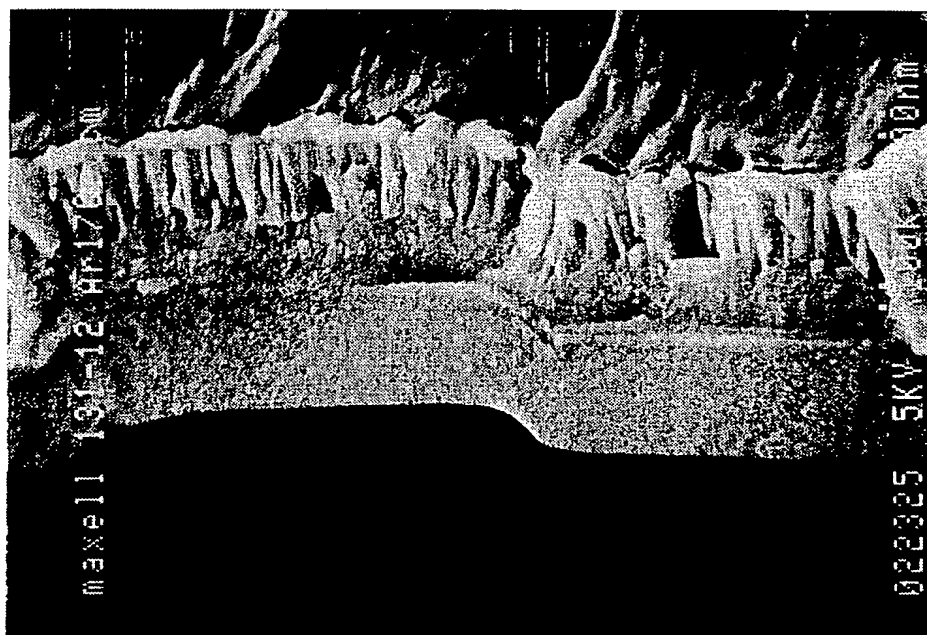


FIG. 2A



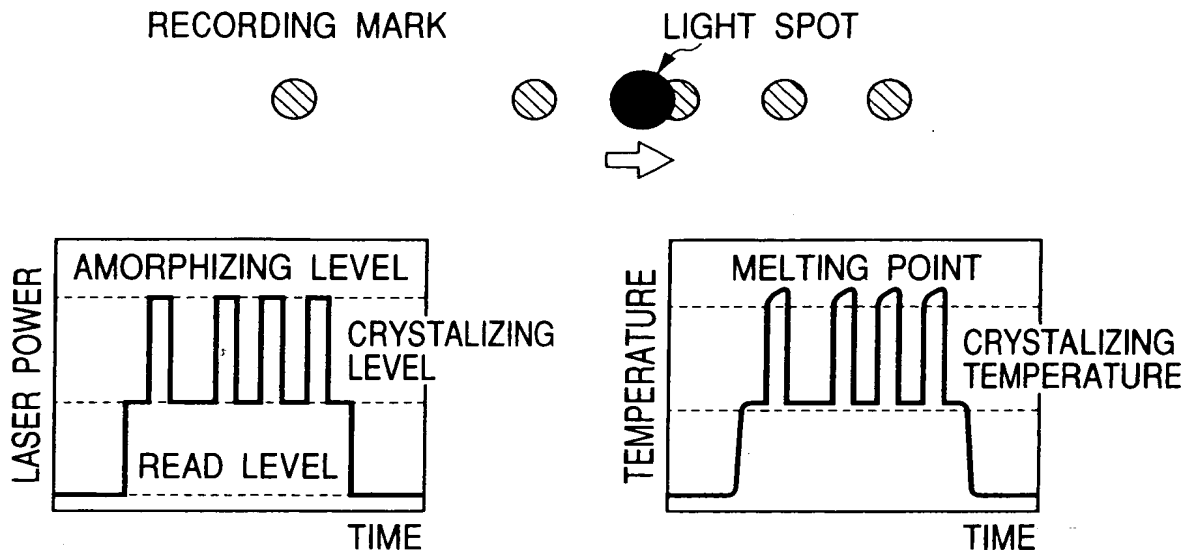
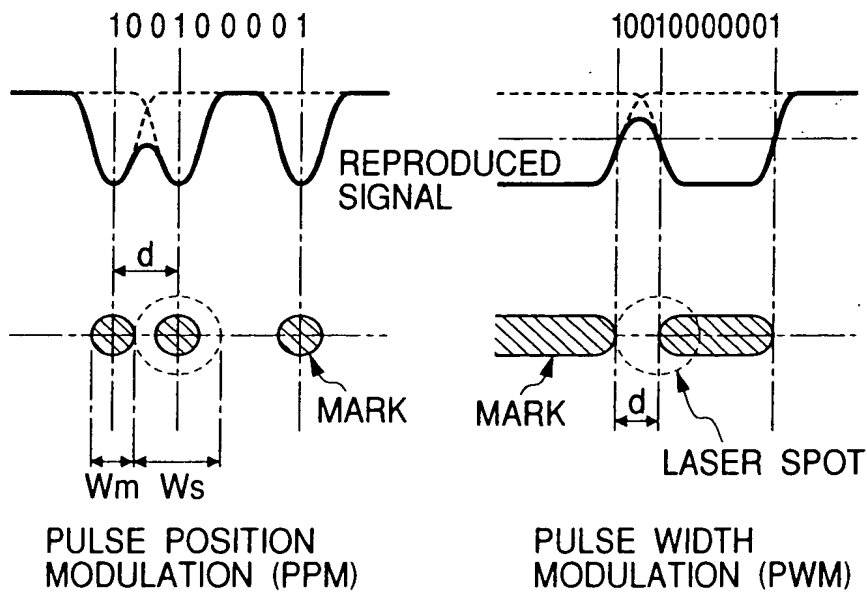
ARGON FLOW RATE : SMALL

FIG. 2B



ARGON FLOW RATE : LARGE

INTERNAL STRESS COMPENSATABLE CONDITION

FIG. 3**FIG. 4**

Ws : BEAM SPOT DIAMETER
 Wm : MARK-LENGTH
 d : RESOLUTION

FIG. 5

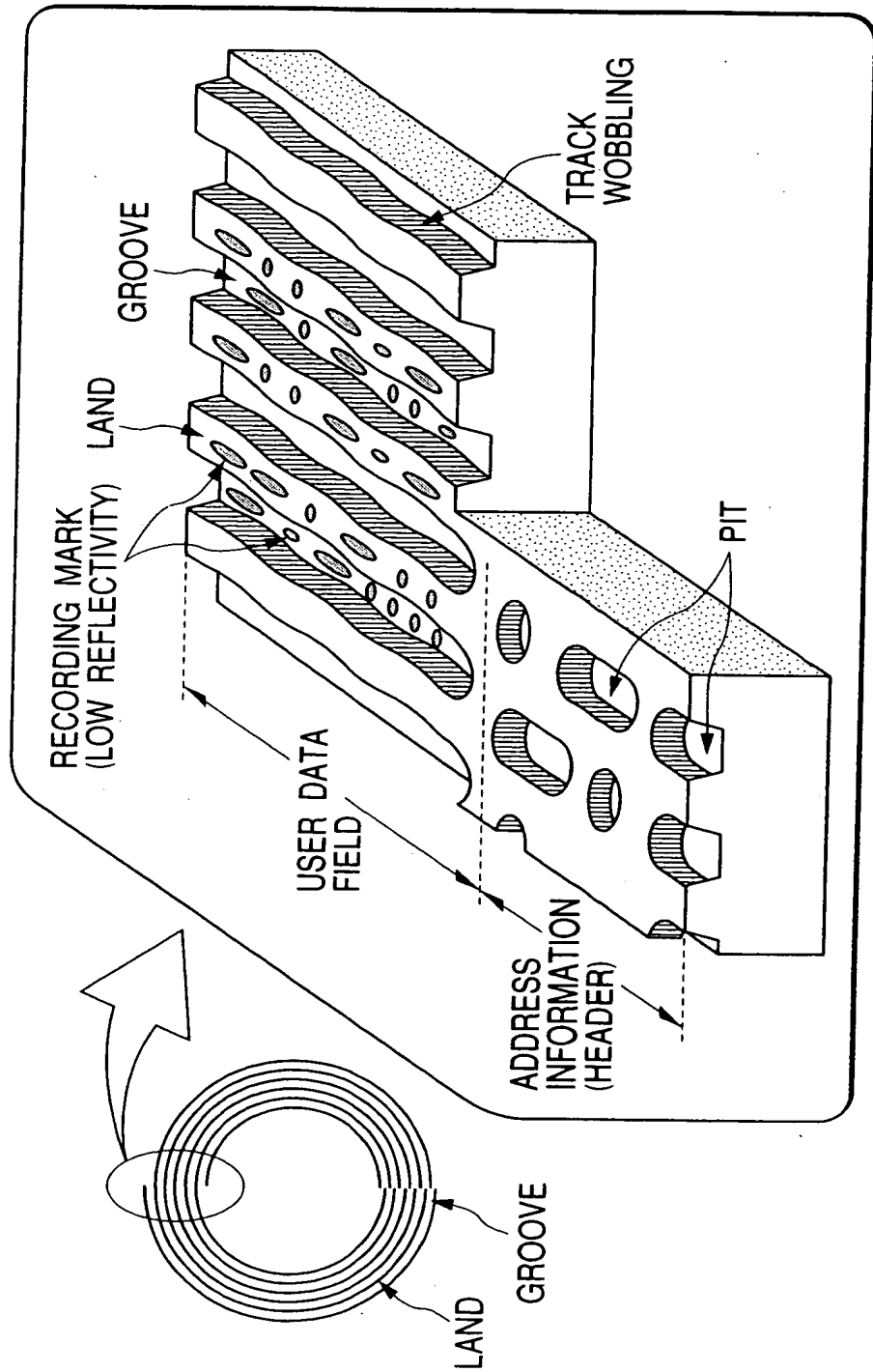
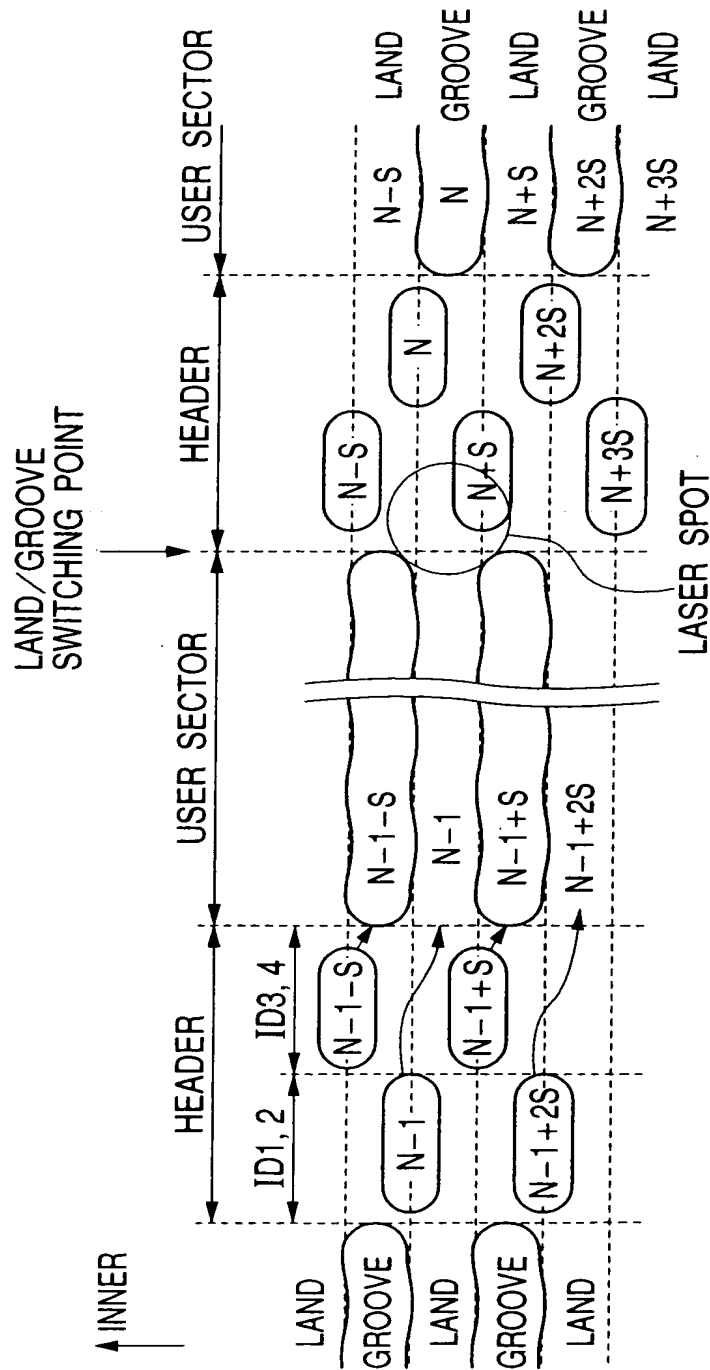


FIG. 6



LAND TRACK : ID1, 2=ID3, 4 · S=SECTOR NUMBER
 GROOVE TRACK : ID3, 4=ID1, 2 · S=SECTOR NUMBER

S : THE NUMBER OF SECTORS IN A TRACK

FIG. 7

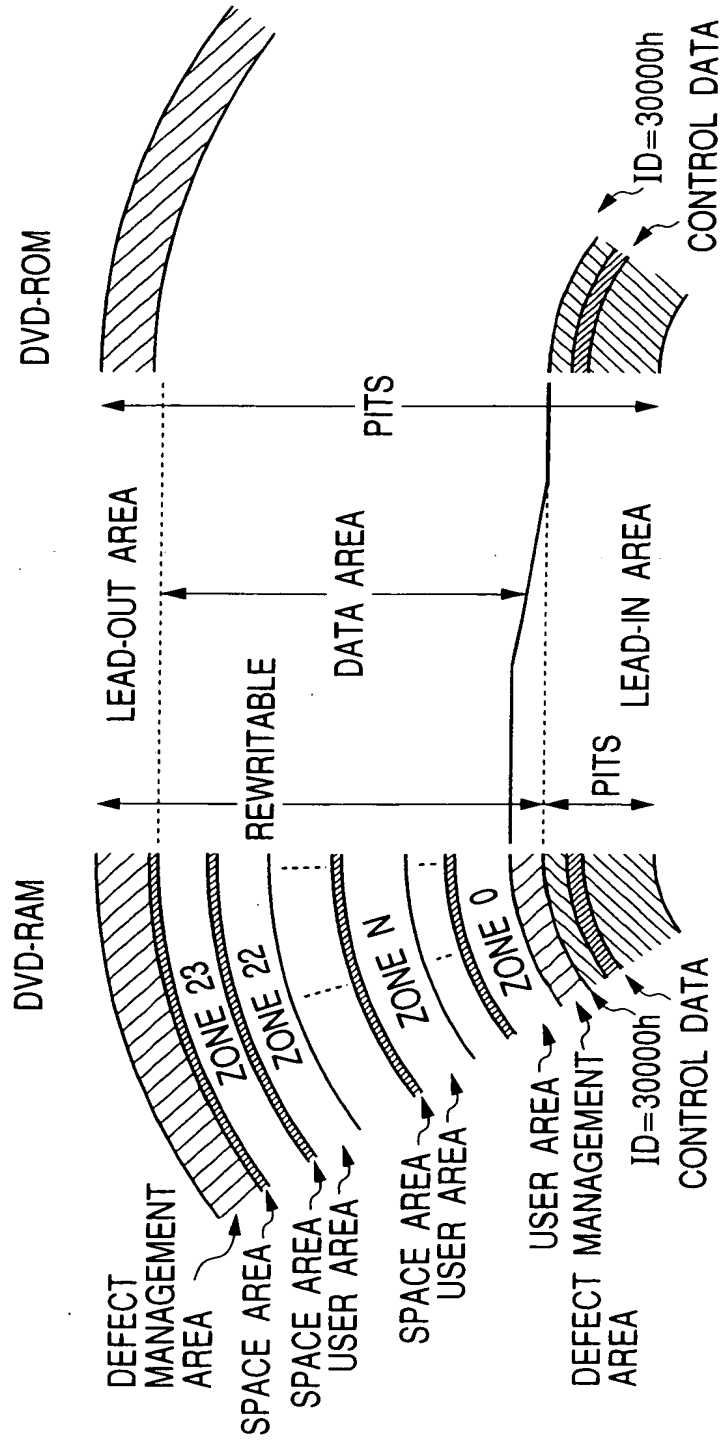


FIG. 8

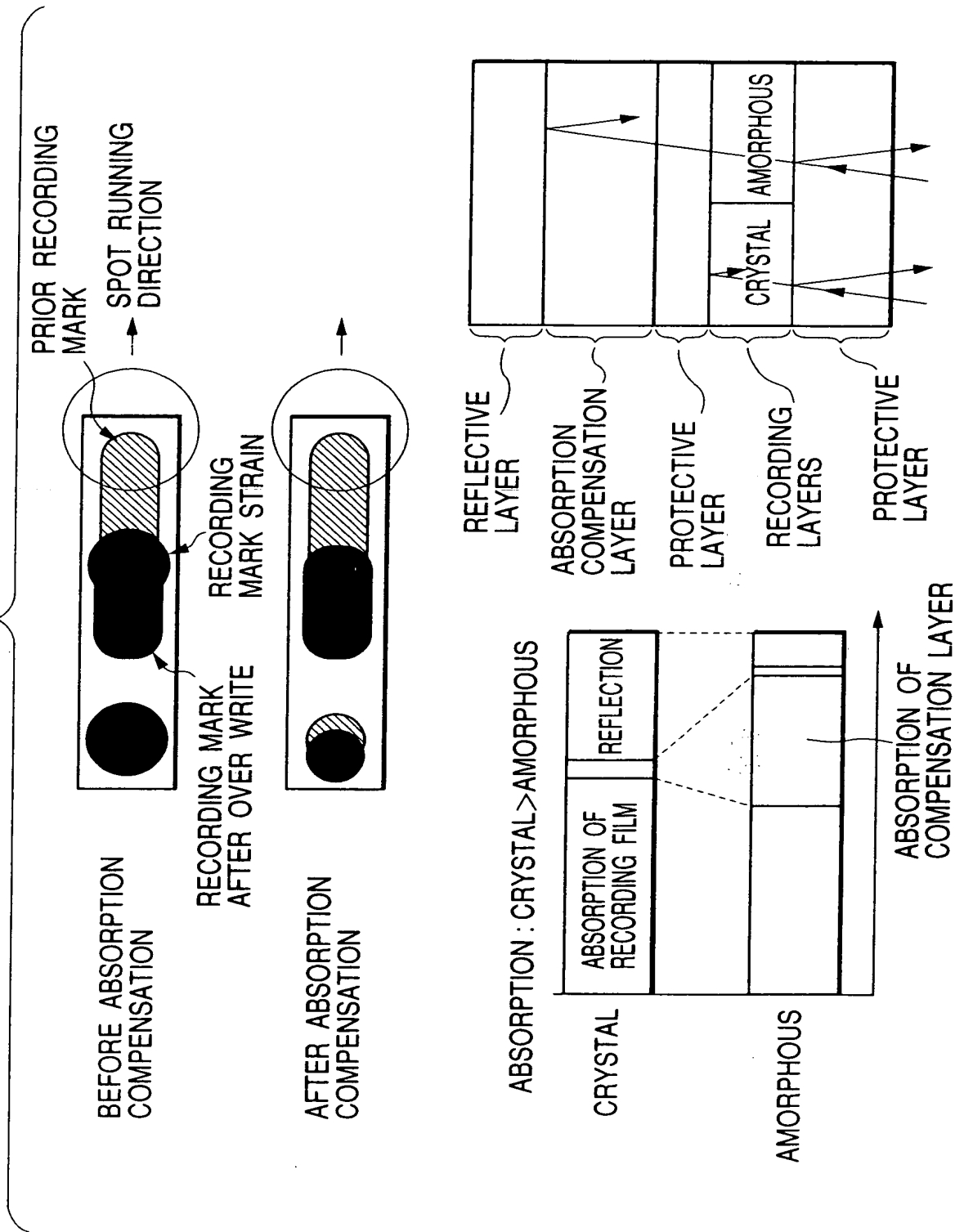
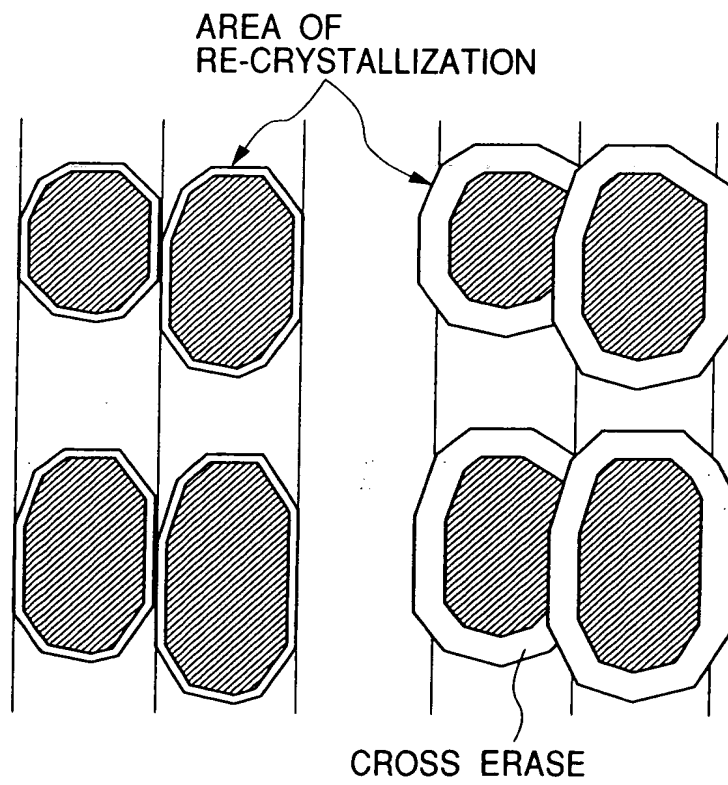
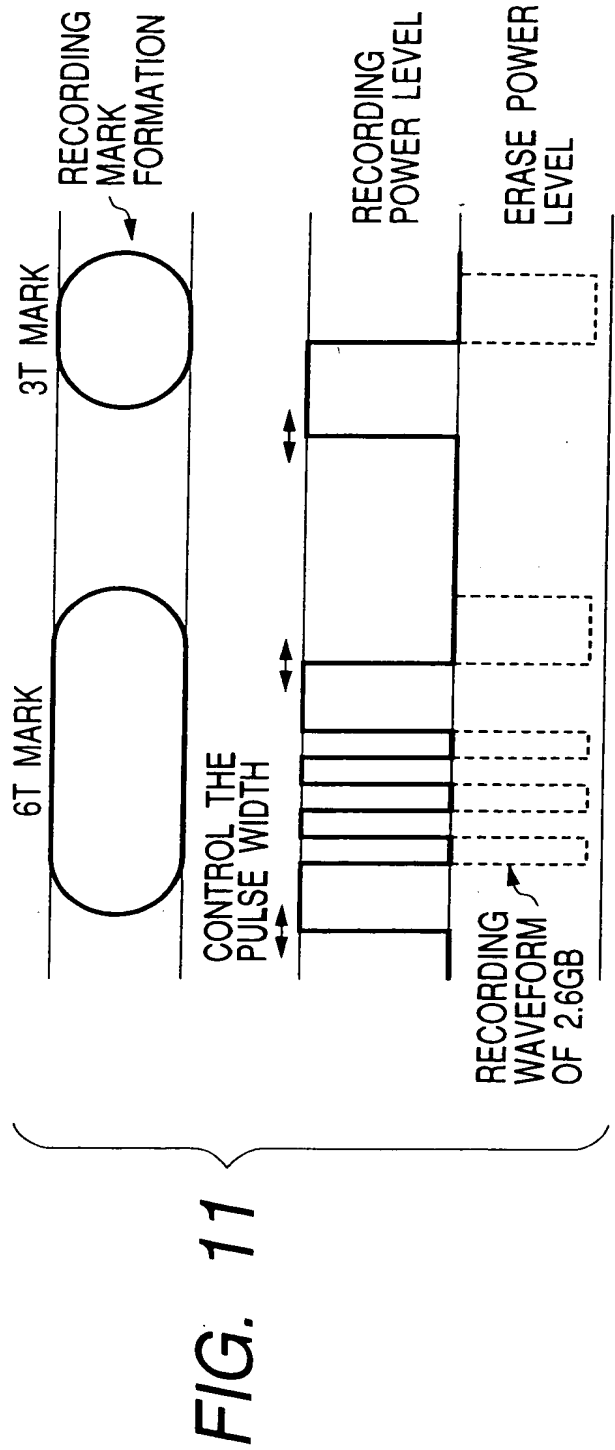
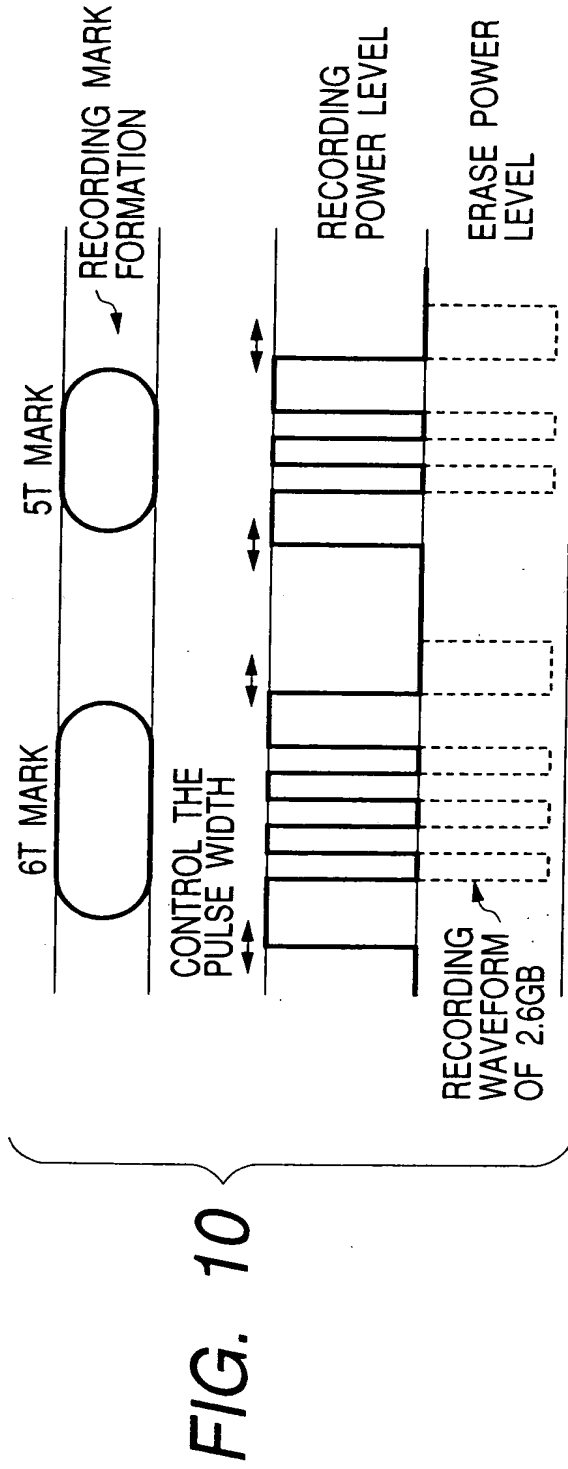


FIG. 9

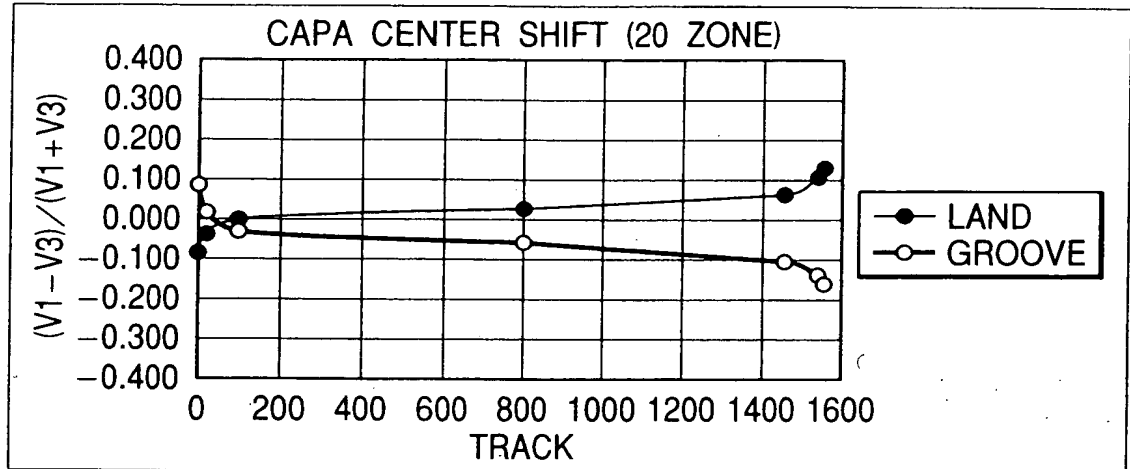




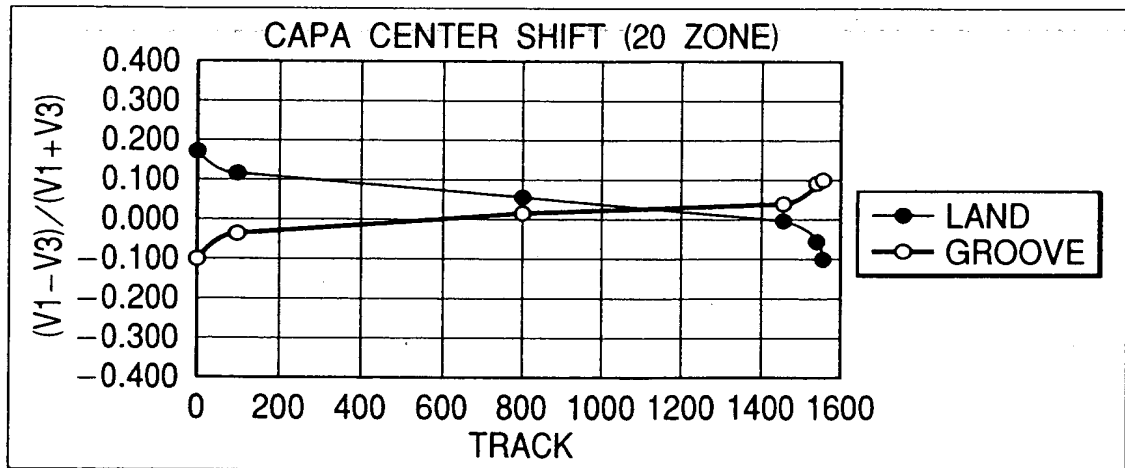
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FIG. 14

COMPARISON EXAMPLE 1



COMPARISON EXAMPLE 2



INVENTION

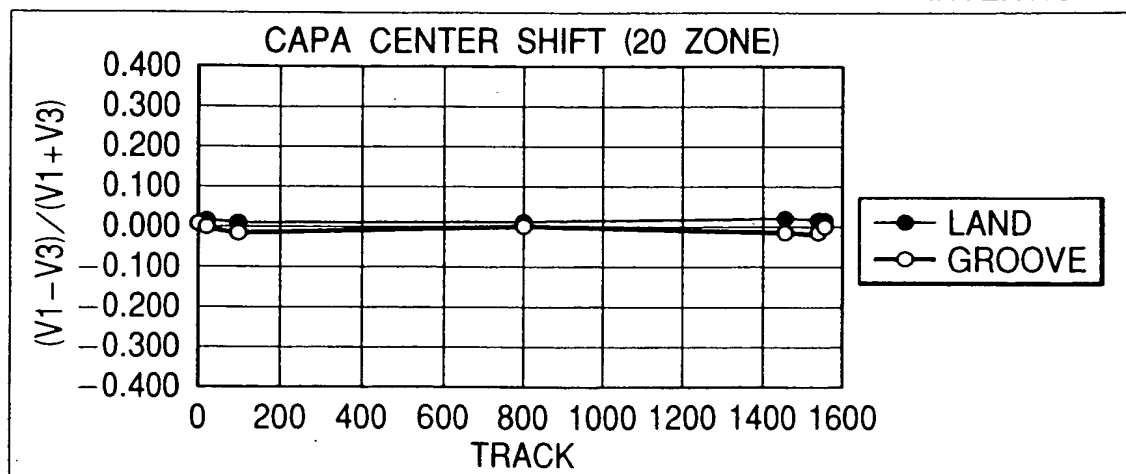


FIG. 12

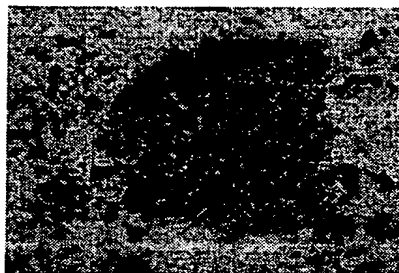


FIG. 13



FIG. 15

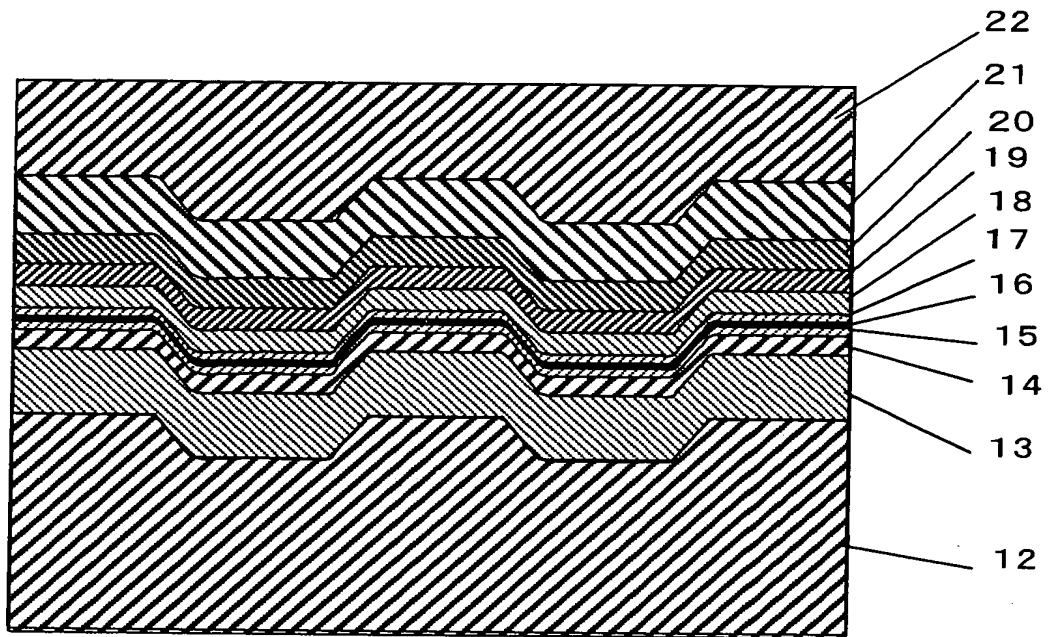


FIG. 16

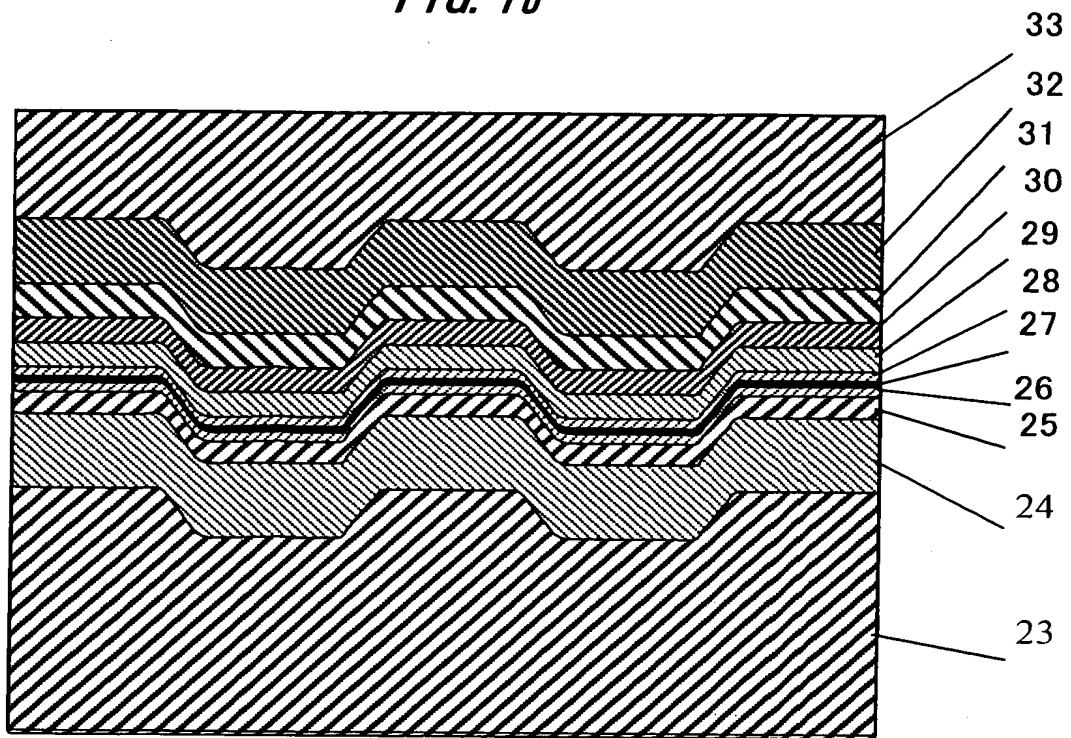


FIG. 17

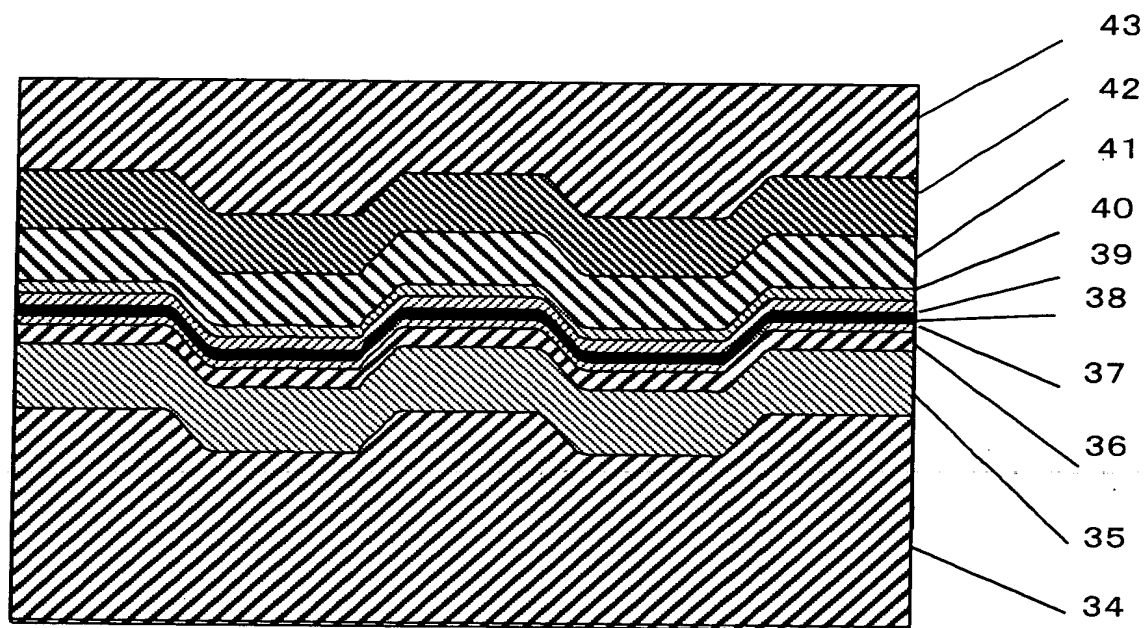
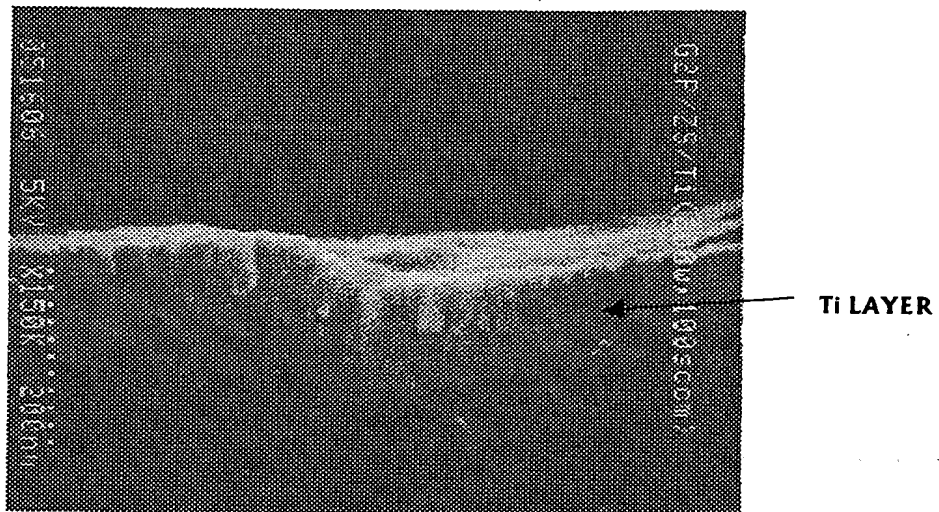
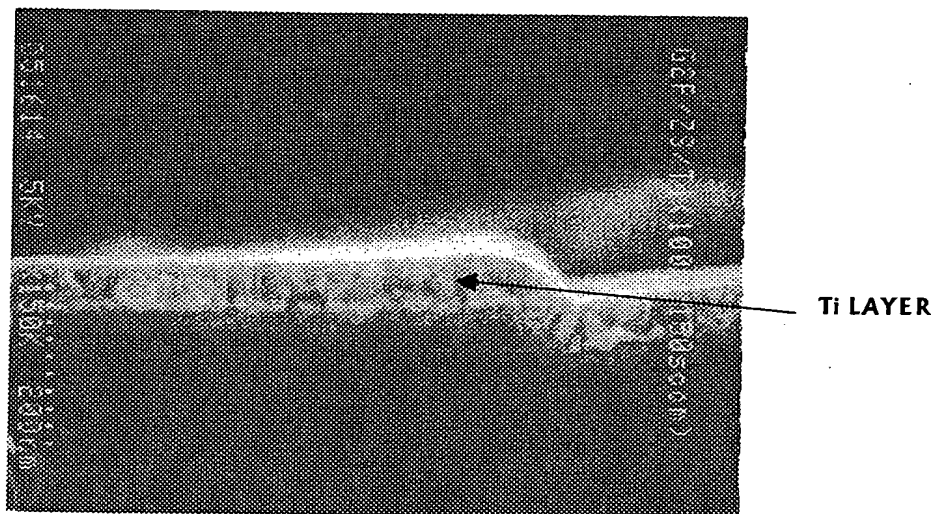


FIG. 18A



ARGON FLOW RATE: SMALL

FIG. 18B



ARGON FLOW RATE: LARGE
INTERNAL STRESS COMPENSATABLE CONDITION

FIG. 19

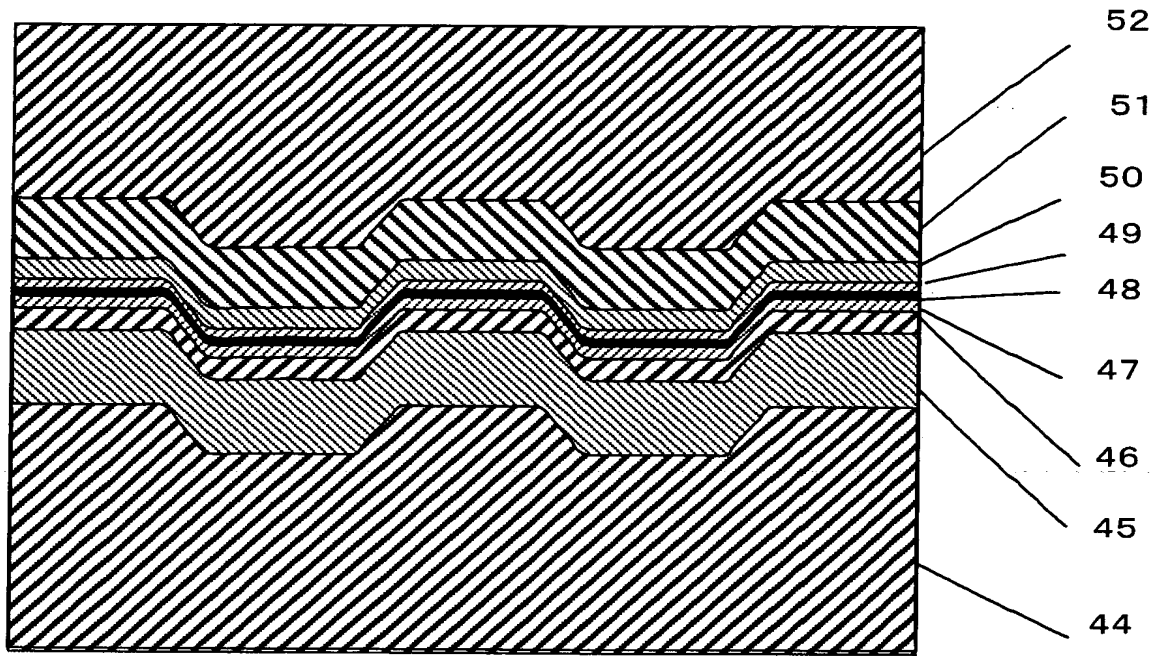


FIG.20

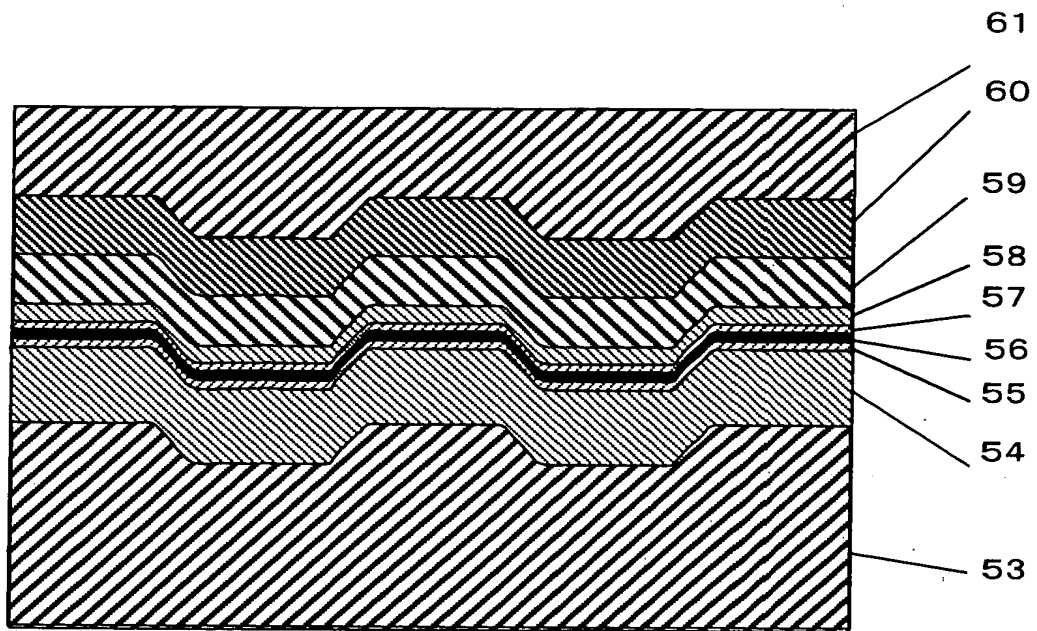


FIG.21

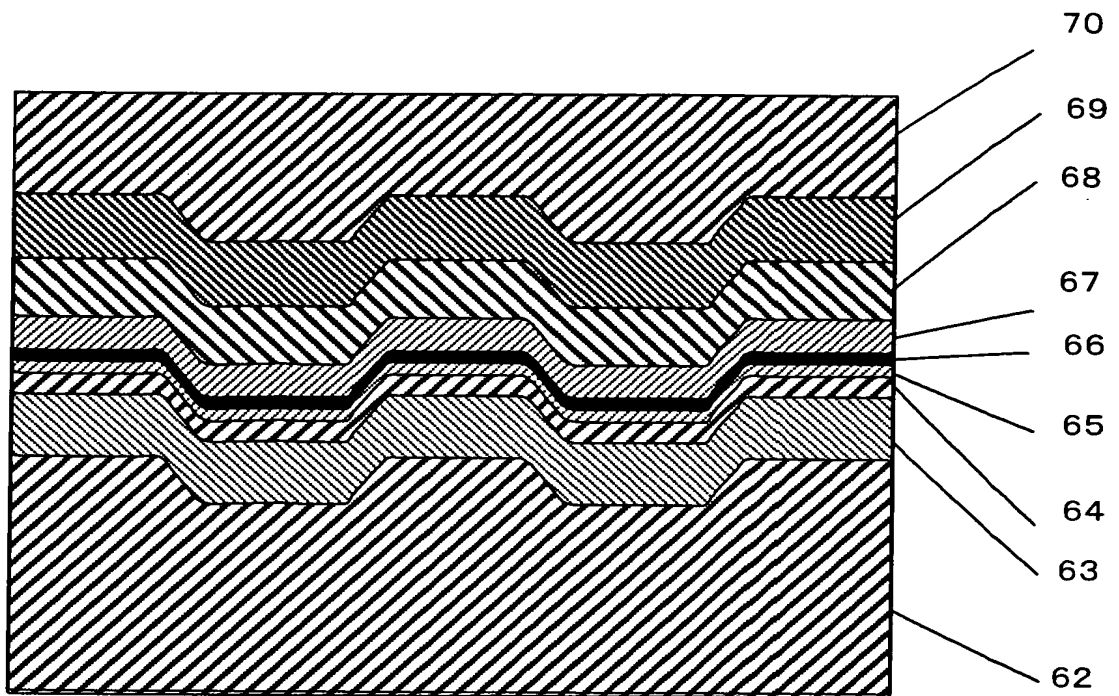


FIG.22

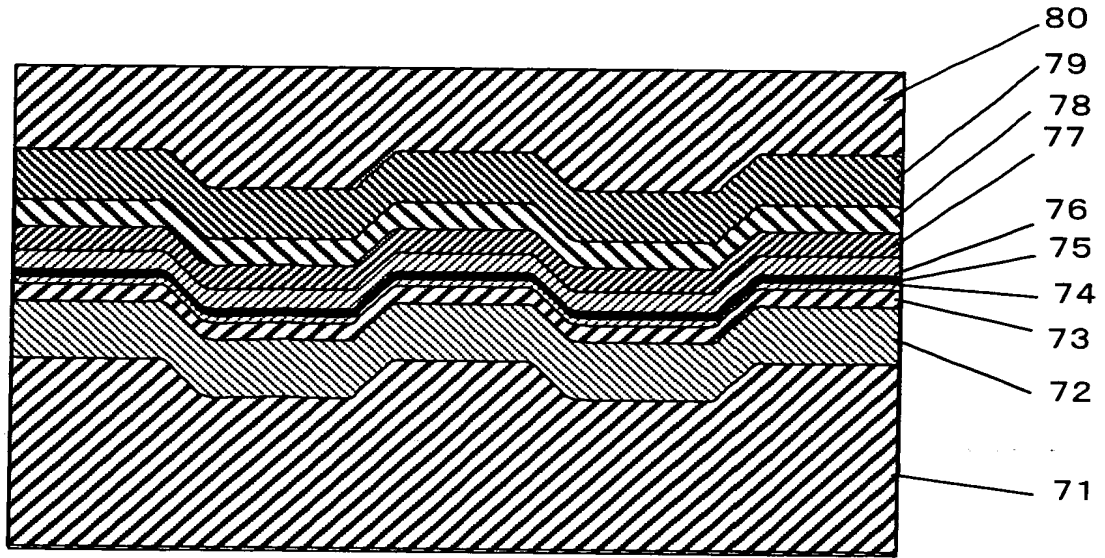


FIG.23

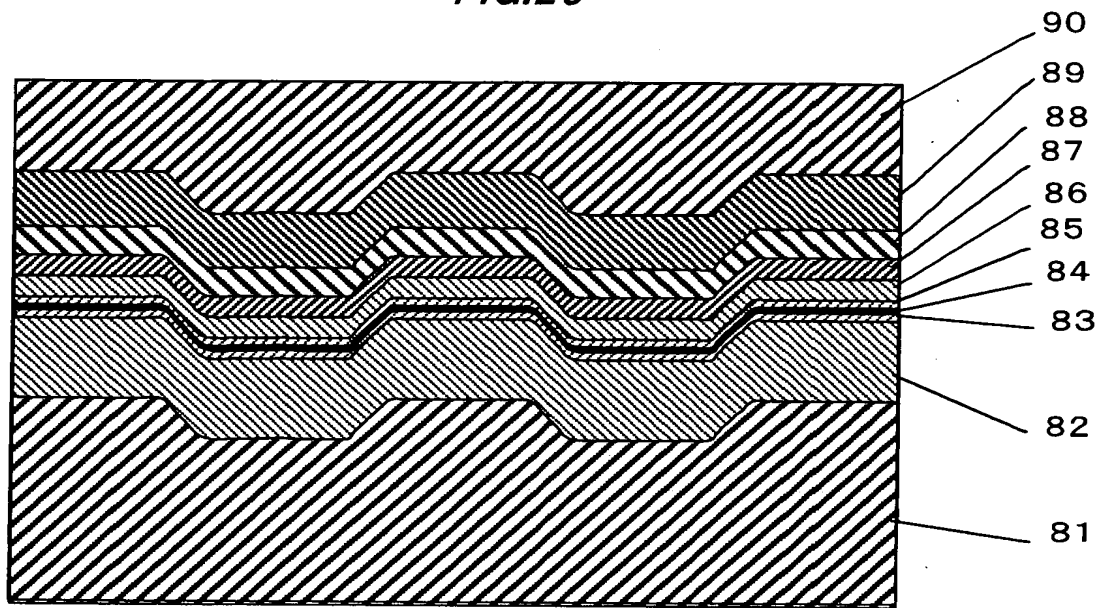


FIG.24

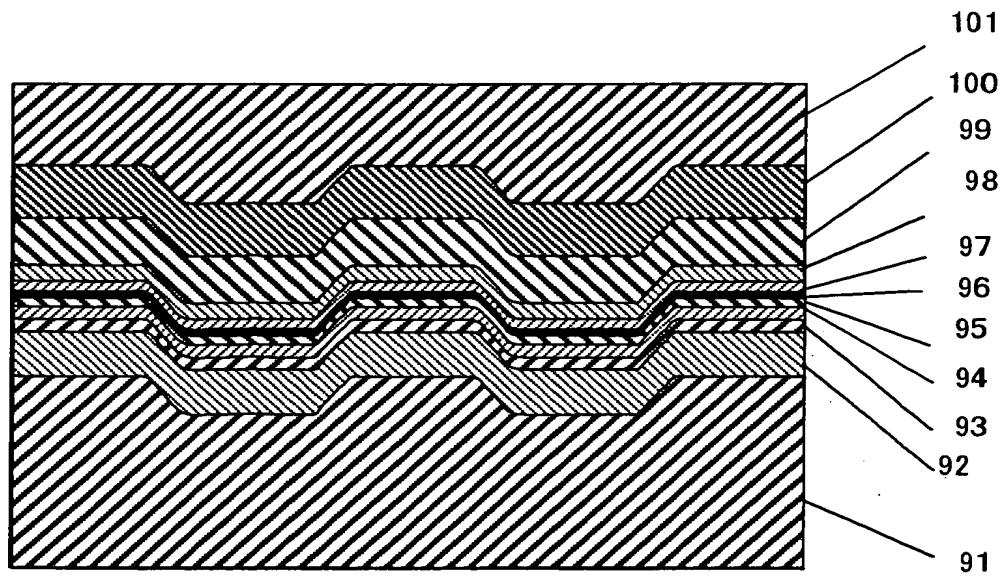


FIG.25

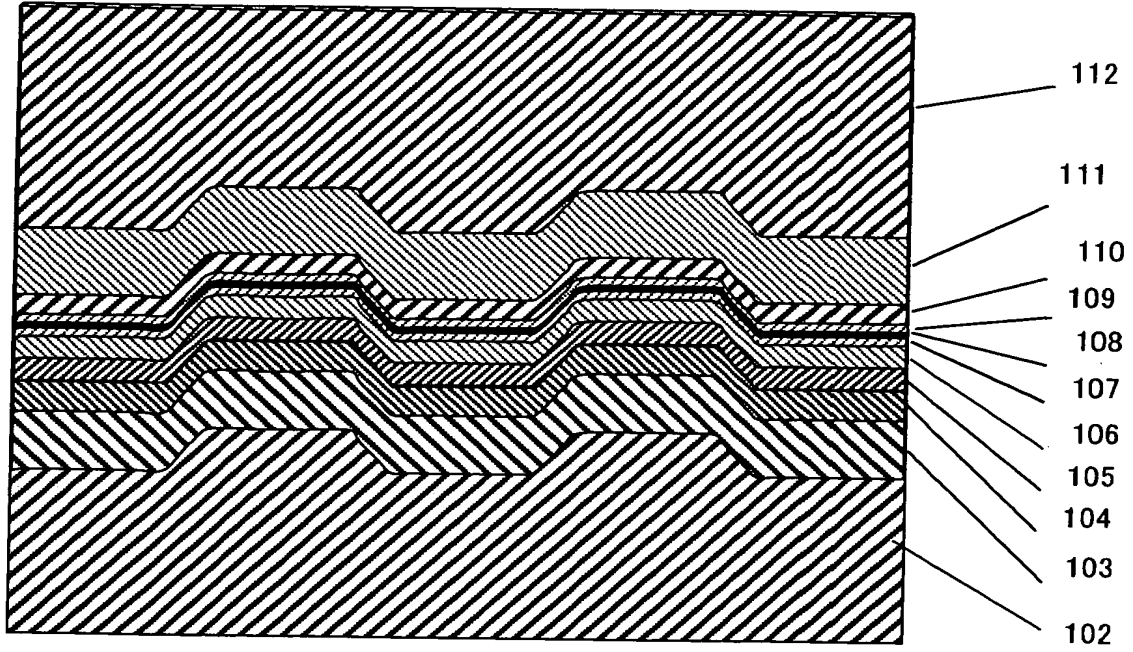


FIG.26

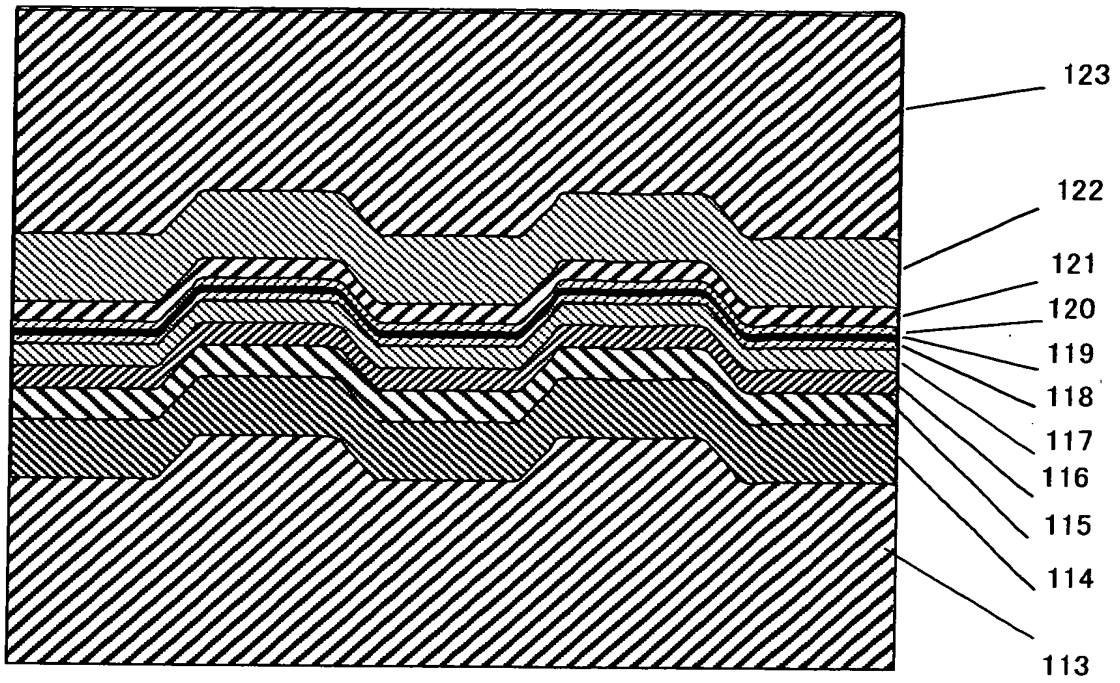


FIG. 27

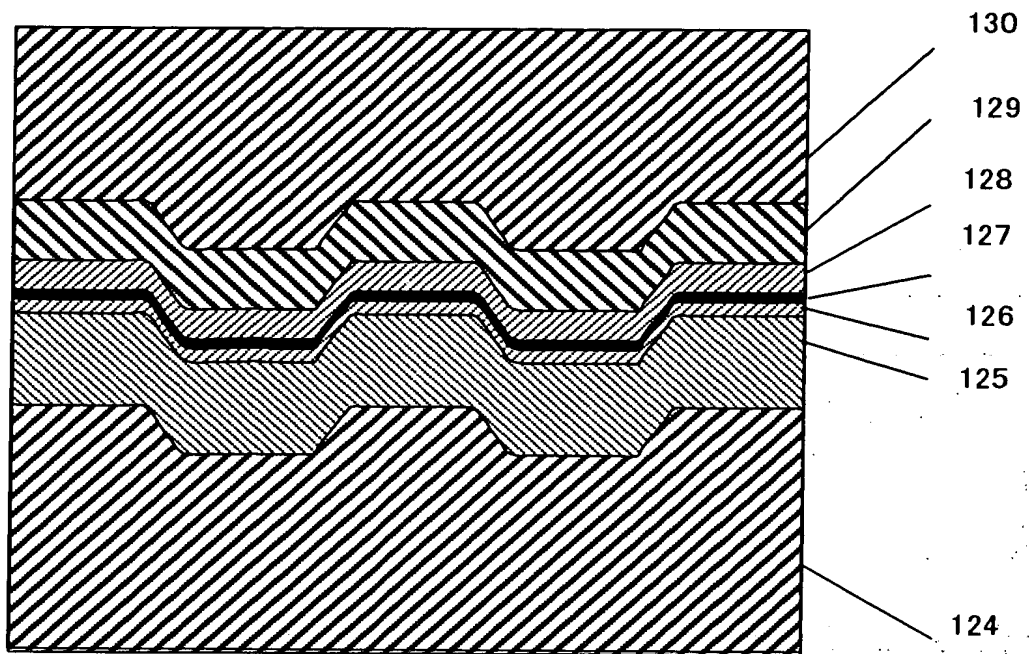


FIG.28

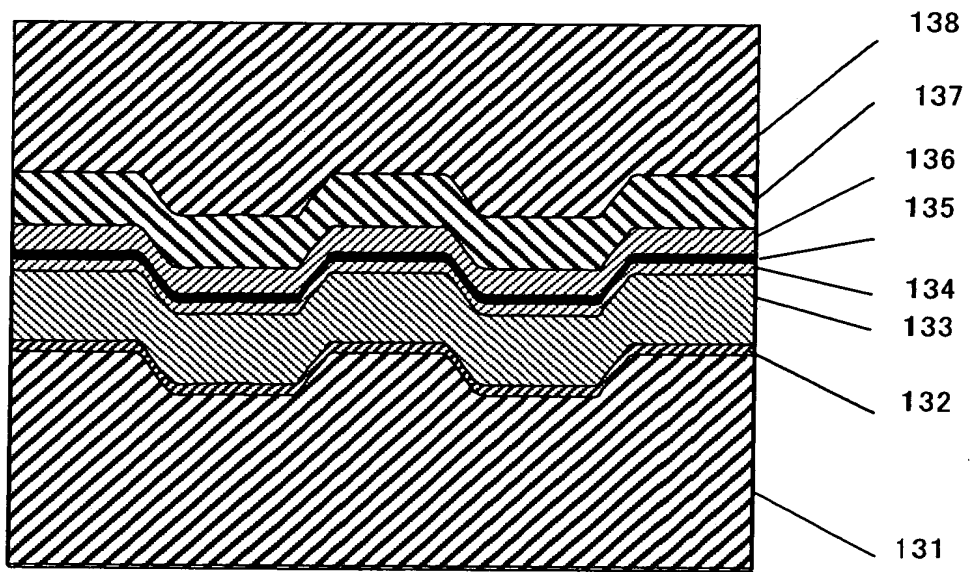


FIG.29

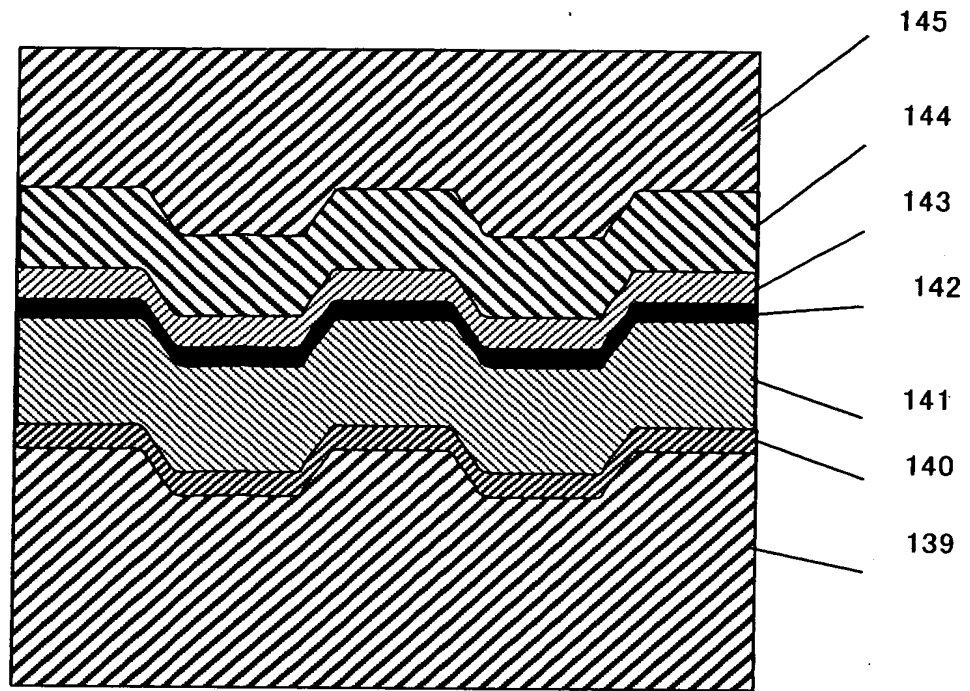


FIG.30

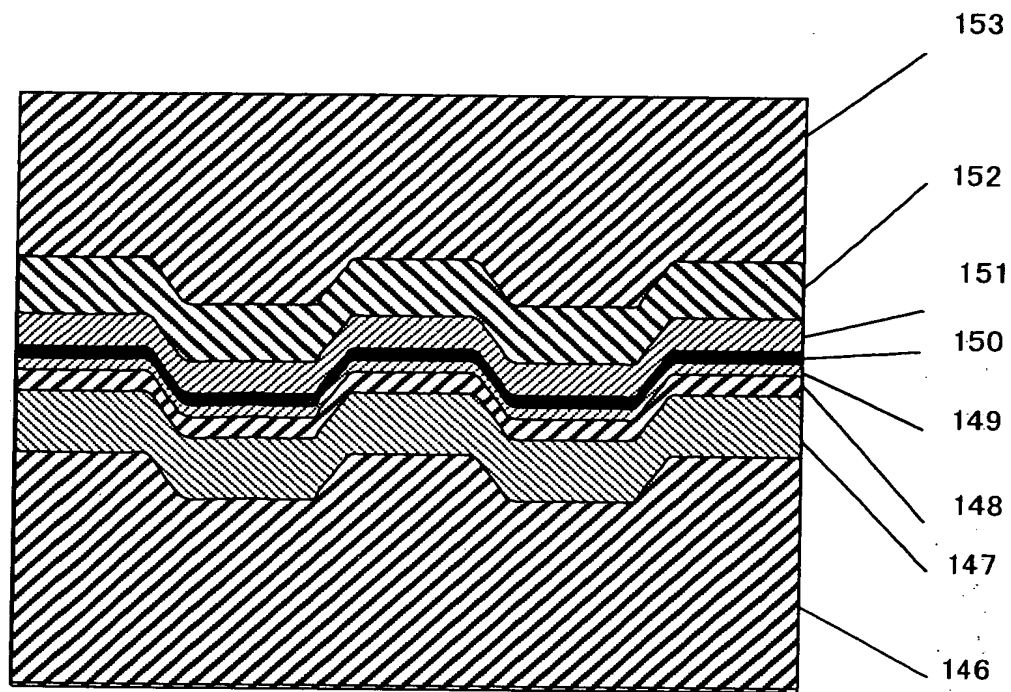


FIG. 31

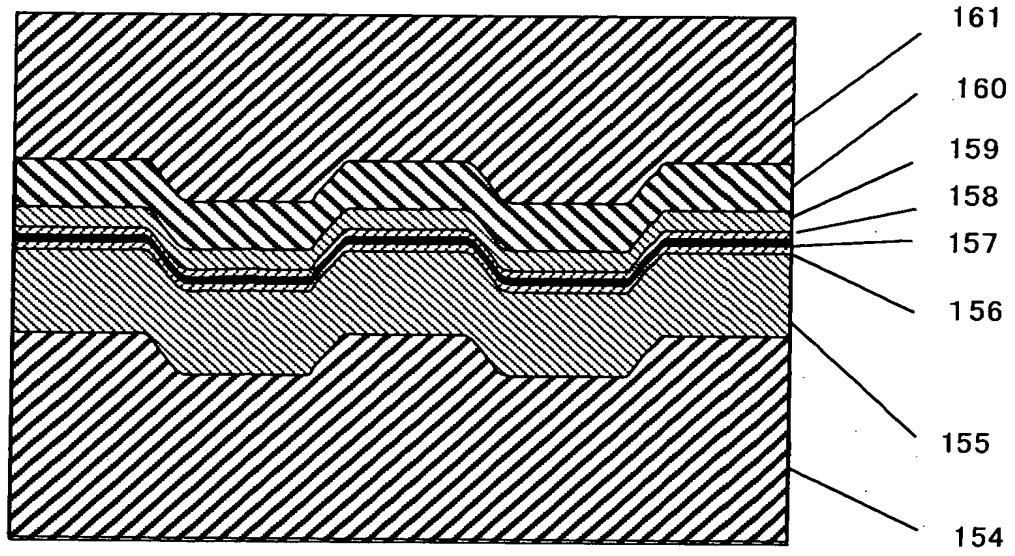


FIG.32

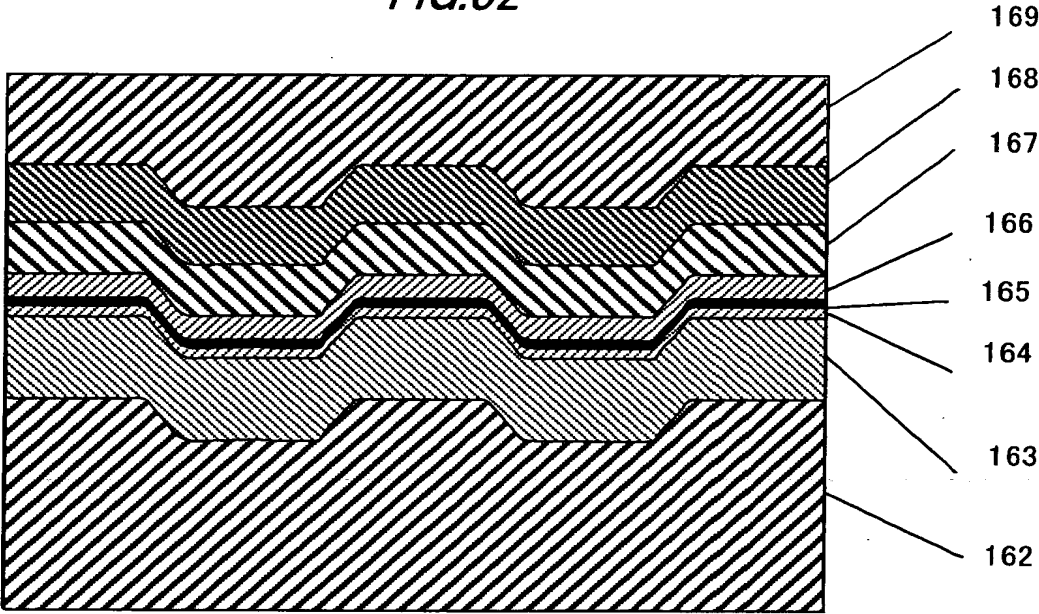


FIG.33

